

1 MLKQERRRSWYRPWNTTENEGSQHRRSICSLGARSQSQASIHGWTEGNYNYIEEDED kv10.1.1.PRC
1 MT-----KHGSRSTSSLPP----- hKv2.1.1.PRC
1 MAE-----KAPPGLNKRTSRSTLSLPP----- hKv2.2.2.PRC

61 GEEEDQWKDDLAEEDDQAGETVTTARPEGSPDPPALLSTLNVNVGSHSYQLDYCEIAGFFEK kv10.1.1.PRC
15 -----EFMEIIVRSKACSSRR-----VRINVGGLAHEVLWRTLDRLPR hKv2.1.1.PRC
23 -----EEVDIIRSKTCSRR-----VKINVGGINHEVLWRTLDRLPR hKv2.2.2.PRC

121 TRLGRLATSTSRQSLICDDYEEQTDYFFDRDPAVFQLVYNFYLSGVTLVLDGICPRR kv10.1.1.PRC
51 TRLGKLRDCNTHDSLLEVCDDYSIDDDNEYFFDRHPGAFSTIILNFYRTGRLLHMMEEMCALS hKv2.1.1.PRC
59 TRLGKLRDCNTHESLLEVCDDYNLNENEYFFDRHPGAFSTIILNFYRTGKLLHMMEEMCALS hKv2.2.2.PRC

181 FLPEIGWGVRLKVTPRCCRICFEERRDELSERLKIQLHQLRAQAQVEEAEEELFRDMRFYG kv10.1.1.PRC
111 FSQELDYWGIDEIYLESCCQARYHQKQONNEELKREAETLPEREGEE-----R-DNTCCA hKv2.1.1.PRC
119 FGQELDYWGIDEIYLESCCQARYHQKQONNEELRREAETMRDGECEE-----F-DNTCCP hKv2.2.2.PRC

241 PQRRRLNMLMEKFFSSVAAKAIGVASSTFVLVSVALALNTVEEMQHSQGGEFFFPDLRP kv10.1.1.PRC
166 EKRRKKLWDLLEKPNSSVAAKILATISIMFIVLSTIALSNTLPELQSLDEFGQSTDN---E hKv2.1.1.PRC
174 DKRKKLWDLLEKPNSSVAAKILAIIVSILFIVLSTIALSNTLPELQETDEFGQLNDN---R hKv2.2.2.PRC

301 IDEHVEMLCMGFTILEYLLRLASSTFEDLRRFFARSALNLDVAIPLPLQLLIECFTGEGH kv10.1.1.PRC
224 QLAHVEAVCIAWFTMEYLLRFLSSPKWKFFKGPNALDLLAILPYVVTIFLT----- hKv2.1.1.PRC
232 QLAHVEAVCIAWFTMEYLLRFLSSFNKWKFFKGPNLVIDLLAILPYVVTIFLT----- hKv2.2.2.PRC

361 QRGQTIGSVGKVGQVLRVMLMRIFERILKLARHSTGLRAEGFTLRQYQQVGGQLLFLFAM kv10.1.1.PRC
277 ESNKSVLQFNVRVQIFRIMRILRILKLARHSTGLQSLGFTLRRSYNELGLLILFLAM hKv2.1.1.PRC
285 ESNKSVLQFNVRVQIFRIMRILRILKLARHSTGLQSLGFTLRRSYNELGLLILFLAM hKv2.2.2.PRC

FIG. 1A

421 G I E T F S A A V Y S V E H D V P S I N F T I I P H S W W A A V S I S T V G Y G D M Y P E T H L G R F F A F L C I A F kv10.1.1.PRC
 337 G I M I F S S L V F F A E K D E D I T K F S I P A S F W A T I T M T T V G Y G D I Y P K T L L G K I V G G L C C I A hKv2.1.1.PRC
 345 G I M I F S S L V F F A E K D E D A T K F K S I P A S F W A T I T M T T V G Y G D I Y P K T L L G K I V G G L C C I A hKv2.2.1.PRC
 481 G I I L N G M P I S I L Y N K F S D Y S K I K A Y E Y T T I R R E I R G E V N F H Q I R A R K K I A E C kv10.1.1.PRC
 397 G V L V I A L P I P I I V N N F S E F Y K E Q K R Q E K A I K R R E A L E R A K R N G S I V S H N M K D A F A R S I E M hKv2.1.1.PRC
 405 G V L V I A L P I P I I V N N F S E F Y K E Q K R Q E K A I K R R E A L E R A K R N G S I V S H N L K D A F A R S M E L hKv2.2.1.PRC
 532 L L I G S N P Q L T P R I Q E N kv10.1.1.PRC
 457 M D I V E K N G E N M G K K D K V Q D N H L S P N K W K T K R T L S E T S S S K S F E T K E Q G S P E K A R S I R hKv2.1.1.PRC
 465 I D V A V E K A G E S A N T K D S A D D N H L S F S R W K W A R K A L S E T S S N K S F E N K Y Q E V S Q K D S H E Q L hKv2.2.1.PRC
 546 I D V A V E K A G E S A N T K D S A D D N H L S F S R W K W A R K A L S E T S S N K S F E N K Y Q E V S Q K D S H E Q L kv10.1.1.PRC
 514 S S S P Q H L N V Q L E D M Y N K M A K T Q S Q F I L N T K E S A A Q S K P K E E I E M E S I P S P V A hKv2.1.1.PRC
 525 N N T F S S P Q H L S A Q K L E M I Y N E I T K T Q P H S H P N P D C Q E K P E R P S A Y E E I E M E E V V C P Q E hKv2.2.1.PRC
 546 P I P T R F E G V I D M R S M S S I D S F I S C A T D F P E A T R F S H S P L T S L P S K T G G S T A P E V G W R G A kv10.1.1.PRC
 567 Q I A V A Q E I V I V D M K S T S S I D S F I S C A T D F I E T E R S P L P P S A S H L Q M I R hKv2.1.1.PRC
 585 Q I A V A Q E I V I V D M K S T S S I D S F I S C A T D F I E T E R S P L P P S A S H L Q M I R hKv2.2.1.PRC
 546 L G A S G R F V E A N P S P D A S Q H S S F F I E S P K S S M K T N N P L K L R A L K V N F M E G D P S P L P V L G kv10.1.1.PRC
 626 K E P T D L P G T E E H Q R A R G P F L T L S R E K G P A A R D G T L E Y A P V D I T V N L D A S G hKv2.1.1.PRC
 632 K E P T D L P G T E E H Q R A R G P F L T L S R E K G P A A R D G T L E Y A P V D I T V N L D A S G hKv2.2.1.PRC
 546 Y H D P I R N R G S A A A V A G L E C A T I L D K A V L S P E S S I Y T T A S A K T P P R S P E K H T A I A F kv10.1.1.PRC
 686 M I R N R G S A A A V A G L E C A T I L D K A V L S P E S S I Y T T A S A K T P P R S P E K H T A I A F hKv2.1.1.PRC
 683 S Q C G L H S P I Q S D N A T D S P K S S L K G S N P L K S R S L K V N F K E N R G S A P Q T P P S T A R P L P V T T A hKv2.2.1.PRC

FIG. 1B

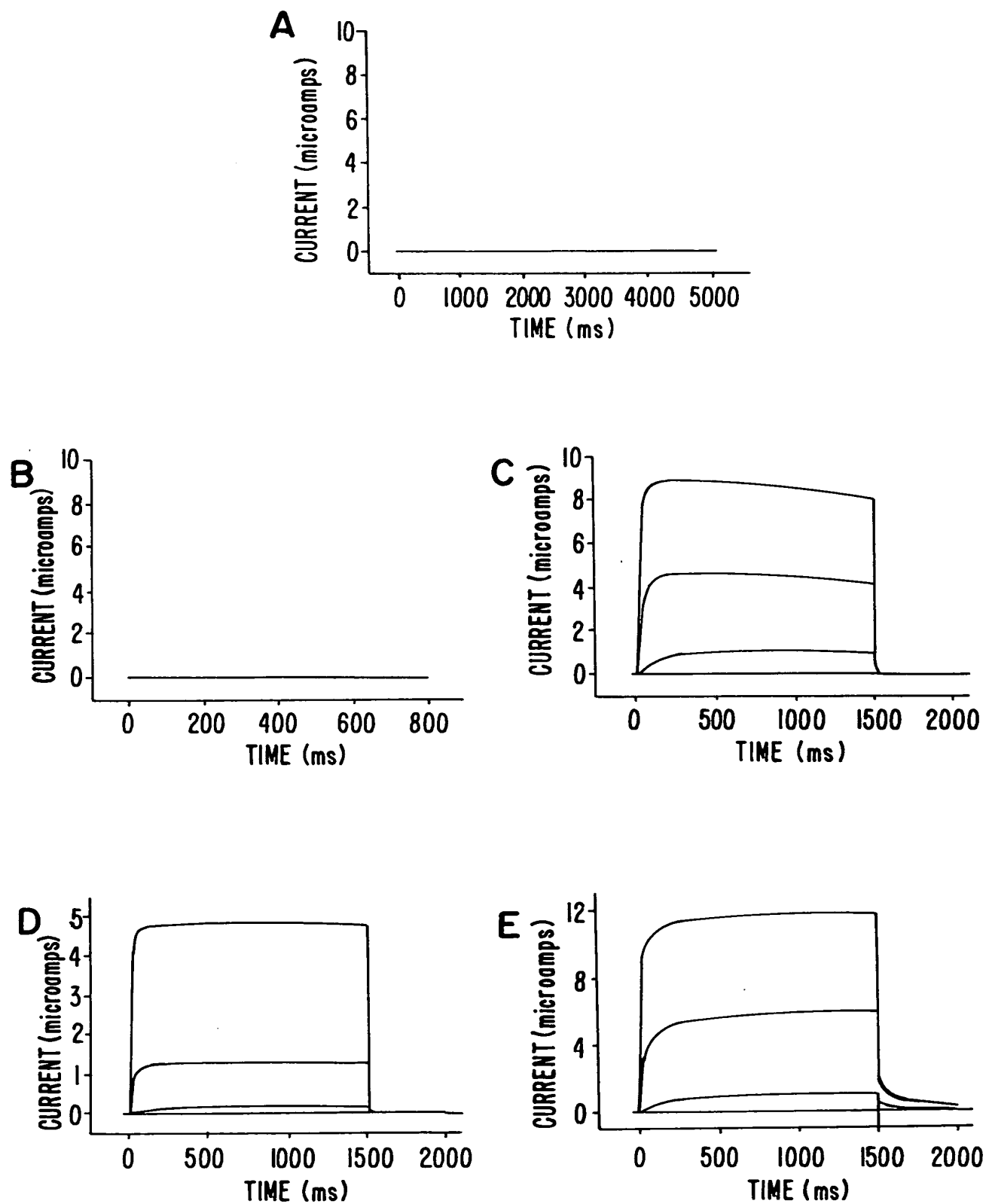


FIG. 3.

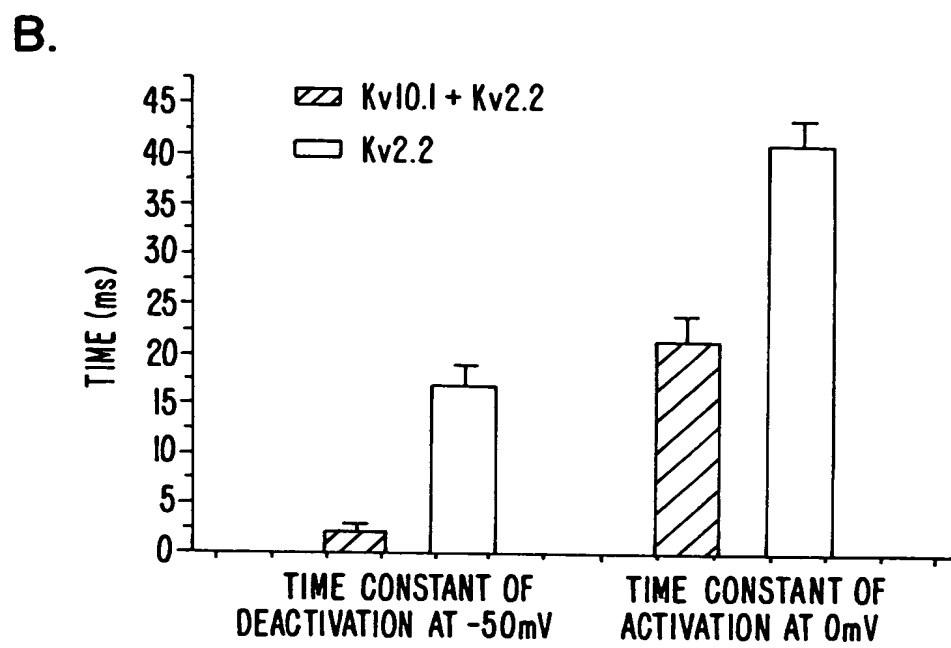
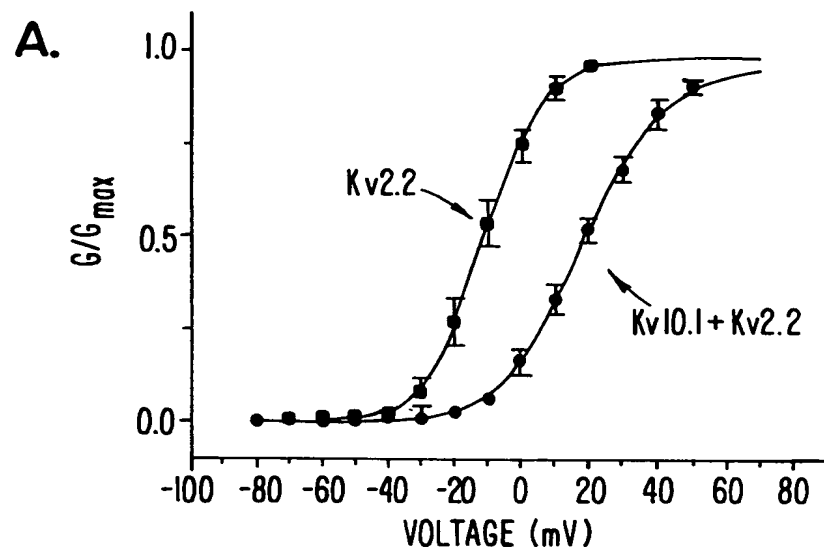


FIG. 4.

TR = TRACE LEVELS

TR	WHOLE BRAIN
	FETAL BRAIN
	TRIGEMINAL
	DRG
TR	FRONTAL CORTEX
	HIPPOCAMPUS
	+ SPINAL CORD
	+ SUBSTANTIA NIGRA
	HYPOTHALAMUS
KV10.1 mRNA	CEREBELLUM
	KIDNEY
	HEART
	++ TESTIS
	SPLEEN
	PANCREAS
	BLADDER
	+ PROSTATE
	LIVER
	SKELETAL MUSCLE
	PLACENTA
	COLON
	+ RETINA

FIG. 5.